

ABSTRACT OF THE DISCLOSURE

A fingerprint authentication device comprises input finger characteristic judging portion 13. The input finger characteristic judging portion 13 judges whether the input data is proper or not on the basis of spatial frequency analysis of an fingerprint image represented by the input data. An observation area deciding portion decides an observation area on the fingerprint image. A frequency analyzing portion 132 transforms image of the observation area into a Fourier transformed image. The frequency analyzing portion 132 further calculates averages and dispersion of strength values corresponding to predetermined spatial frequency bands. A discriminative value calculating portion calculates discriminative values by the use of the averages and the dispersion. A deciding portion decides whether the input image is proper or not by the use of the discriminative values together with discriminative coefficient preliminary calculated.